

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 12-2004)ATTORNEY'S DOCKET NUMBER  
264198US0PCT

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/521364

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371INTERNATIONAL APPLICATION NO.  
PCT/EP03/07991INTERNATIONAL FILING DATE  
22 July 2003PRIORITY DATE CLAIMED  
24 July 2002TITLE OF INVENTION  
CONTINUOUS FRACTIONATION OF A C4 FRACTION

MAIL STOP PCT

APPLICANT(S) FOR DO/EO/US

Till ADRIAN et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10.  An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A power of attorney and/or change of address letter.
19.  A computer-readable form of the sequence listing in accordance with PCT Rule 13/ter.2 and 37 CFR 1.821 - 1.825.
20.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21.  A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22.  Express Mail Label No.
23.  Other items or information:

Application Data Sheet  
Drawings (2 sheets)

Notice of Priority

PCT/IB/308

PCT/IB/304

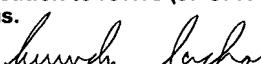
Statement of Relevancy

Form PTO-1449

Reference Cited (5)

Amended Sheets (pages 19-22)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.6) <b>10/521364</b>		INTERNATIONAL APPLICATION NO. <b>PCT/EP03/07991</b>		ATTORNEY'S DOCKET NUMBER <b>264198US0PCT</b>																
24. The following fees are submitted: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><input checked="" type="checkbox"/> a) Basic national fee .....</td> <td style="width: 10%; text-align: right;">\$300.00</td> <td style="width: 30%;"></td> </tr> <tr> <td><input checked="" type="checkbox"/> b) Examination fee .....</td> <td style="text-align: right;">\$200.00</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> c) Search fee .....</td> <td style="text-align: right;">\$500.00</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td style="text-align: right;"><b>\$1000.00</b></td> </tr> <tr> <td colspan="3"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.         </td> </tr> </table>						<input checked="" type="checkbox"/> a) Basic national fee .....	\$300.00		<input checked="" type="checkbox"/> b) Examination fee .....	\$200.00		<input checked="" type="checkbox"/> c) Search fee .....	\$500.00		<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$1000.00</b>	<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
<input checked="" type="checkbox"/> a) Basic national fee .....	\$300.00																			
<input checked="" type="checkbox"/> b) Examination fee .....	\$200.00																			
<input checked="" type="checkbox"/> c) Search fee .....	\$500.00																			
<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$1000.00</b>																		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																				
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE																	
- 100 =	/50 =		x	\$250.00	\$ 0.00															
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).																				
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																	
Total claims	19	- 20 = 0	x	\$50.00	\$ 0.00															
Independent claims	1	- 3 = 0	x	\$200.00	\$ 0.00															
MULTIPLE DEPENDENT CLAIMS (if applicable)			<input type="checkbox"/>	+ \$360.00	\$ 0.00															
			<b>TOTAL OF ABOVE CALCULATIONS =</b> \$ 1,000.00																	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			\$ 0.00																	
			<b>SUBTOTAL =</b> \$ 1,000.00																	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			\$ 0.00																	
			<b>TOTAL NATIONAL FEE =</b> \$ 1,000.00																	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +			\$ 0.00																	
			<b>TOTAL FEES ENCLOSED =</b> \$ 1,000.00																	
			Amount to be refunded: \$																	
			Amount to be charged: \$																	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.																				
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is _____.																				
c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0030</u> . A duplicate copy of this sheet is enclosed.																				
d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.																				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.																				
SEND ALL CORRESPONDENCE TO:																				
Customer Number 22850		Surinder Sachar Registration No. 34,423		 SIGNATURE Norman F. Oblon NAME 24,618 REGISTRATION NUMBER																

Docket No. 264198US0PCT

IN RE APPLICATION OF: Till ADRIAN, et al.

SERIAL NO: New U.S. PCT Application Based on PCT/EP03/07991

FILED: Herewith

FOR: CONTINUOUS FRACTIONATION OF A C4 FRACTION

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Transmitted herewith is an amendment in the above-identified application.

No additional fee is required

Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.

Additional documents filed herewith: PCT Transmittal Letter/Application Data Sheet/Notice of Priority/Drawings (2 sheets)  
English Translation of Specification/Preliminary Amendment/Declaration/PCT/IB/304  
PCT/IB/308/Amended Sheets (pages 19-22)/International Search Report  
Information Disclosure Statement/Form PTO-1449/Reference Cited (5)  
Statement of Relevancy/Credit Card Payment Form for \$1000.00

The Fee has been calculated as shown below:

CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS	RATE	CALCULATIONS
TOTAL	19	MINUS	20	0	x \$50 =	\$0.00
INDEPENDENT	1	MINUS	3	0	x \$200 =	\$0.00
		<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS			+ \$360 =	\$0.00
						TOTAL OF ABOVE CALCULATIONS
		<input type="checkbox"/> Reduction by 50% for filing by Small Entity				\$0.00
		<input type="checkbox"/> Recordation of Assignment			+ \$40 =	\$0.00
						TOTAL
						\$0.00

A check in the amount of \$0.00 is attached.

Credit card payment form is attached to cover the fees in the amount of \$0.00

Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

*Surinder Sachar*

Norman F. Oblon

Registration No. 24,618

Customer Number

22850

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(OSMMN 05/03)

Surinder Sachar  
Registration No. 34, 423